

ABSTRACT OF THE DISCLOSURE

A pneumatic tool (20) for impacting a workpiece (22) is provided. The tool (20) comprises a casing (42) defining a chamber (48). A piston (54) is slidable within the chamber (48) along an operational axis (A). An exhaust valve (100) controlled by a pilot 5 valve (200) slides the piston (54) by selectively introducing and releasing pressurized fluid into and out from the chamber (48). A tool bit (24) is slidable within the chamber (48) to impact the workpiece (22). Kinetic energy is transferred to the tool bit (24) from the piston (54) via an impact from the piston (54) as the piston (54) slides within the chamber (48). An energy absorbing mechanism (402) reduces the kinetic energy of the tool bit (24) after 10 impact by the piston (54). The energy absorbing mechanism comprises a sleeve (404) that slides along the casing (42) and first (412) and second (414) pressure chambers that dissipate the kinetic energy of the tool bit (24) in multiple stages.